AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS

- (currently amended) A band-gap reference circuit, comprising: 1.
 - a band-gap reference unit;
 - a buffer circuit electronically coupled with said band-gap reference unit; and
- a single component voltage pull-up device that is separate from said band-gap reference unit electronically coupled between said band-gap reference unit and said buffer circuit, wherein said voltage pull-up device acts to reduce a required supply voltage to maintain a band-gap reference voltage and wherein said voltage pull-up device is implemented as a transistor with a VBE of less than 1.0 volts.
- 2. (previously presented) A band-gap reference circuit as described in Claim 1, wherein said band-gap reference circuit resides in an integrated circuit device.
- 3. (previously presented) A band-gap reference circuit as described in Claim 1, wherein said band-gap reference circuit is implemented in a silicon substrate.
- 4. (previously presented) A band-gap reference circuit as described in Claim 1, wherein said buffer circuit is implemented as a transistor.
- 5. (cancelled)
- (previously presented) A band-gap reference circuit as described in Claim 1, wherein said 6. band gap reference voltage is provided by current through a transistor with a VBE of less than 1.0 volts.

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- 7. (currently amended) An electronic device, comprising:
 - a silicon substrate;
 - electronic circuitry constructed in said silicon substrate; and
 - a band-gap reference circuit comprising a band gap reference unit, a buffer circuit, and a single component voltage pull-up device that is separate from said band-gap reference unit electronically coupled in said electronic device, wherein said electronic circuitry requires reference to the output voltage of said band-gap reference circuit and said band-gap reference circuit is enabled for low impedance by said buffer circuit, wherein said buffer circuit comprises a transistor with a VBE of less than 1.0 volts, and wherein said single component voltage pull-up device is coupled between said band-gap reference unit and said buffer circuit.
- 8. (original) An electronic device as described in Claim 7, wherein said electronic device is an integrated circuit device.
- 9. (cancelled)
- 10. (cancelled)
- 11. (previously presented) An electronic device as described in Claim 7, wherein said transistor with a VBE of less than 1.0 volts is connected as an emitter follower.
- 12. (original) An electronic device as described in Claim 7, wherein said band-gap reference circuit is enabled for low supply voltage.
- 13. (original) An electronic device as described in Claim 12, wherein said band-gap reference circuit is enabled for said low supply voltage by a voltage pull-up device.
- 14. (cancelled)

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- 15. (previously presented) An electronic device as described in Claim 13, wherein said band gap reference voltage is provided by current through a transistor with a VBE of less than 1.0 volts.
- 16. (currently amended) In an electronic device, a method for providing a reference voltage, comprising:

flowing current through an electronic element such that the band-gap voltage of said electronic element provides said reference voltage;

providing a buffer circuit and a band gap voltage reference unit coupled to said buffer circuit; and

adjusting the voltage across said buffer circuit, by use of a single component voltage pull-up device that is separate from said band-gap reference unit coupled between said buffer circuit and said band gap voltage reference unit, so that said band-gap reference voltage is maintained, wherein said-voltage across said buffer circuit is a VBE of less than 1.0 volts.

- 17. (original) A method as described in Claim 16, wherein said electronic device is an integrated circuit device.
- 18. (original) A method as described in Claim 16, wherein said buffer circuit is implemented as a transistor circuit.
- 19. (original) A method as described in Claim 18, wherein said transistor circuit is connected as an emitter follower.
- 20. (original) A method as described in Claim 16, wherein said band-gap reference circuit is enabled for low supply voltage.

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- 21. (previously presented) A method as described in Claim 20, wherein said band-gap reference circuit is enabled for said low supply voltage by a voltage pull-up device coupled between said buffer circuit and a band gap reference unit.
- 22. (cancelled)
- 23. (previously presented) A method as described in Claim 21, wherein said band gap reference voltage is provided by current through a transistor with a VBE of less than 1.0 volts.

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